

**IMPROVED KINETIC SPRAY NOZZLE DESIGN FOR SMALL SPOT
COATINGS AND NARROW WIDTH STRUCTURES**

ABSTRACT OF THE DISCLOSURE

An improved nozzle for use in kinetic spray systems is disclosed. The nozzle includes a supersonic portion comprising a tubular section and a flow regulator. A portion of the flow regulator is received in the tubular portion. The flow regulator includes a biconical flow concentrator that allows one to create very small dimension coatings on substrates. Using the present nozzle enables one to create spot coatings and very narrow width line coatings that find use in electrical components.